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USE OF TRAINED INTELLIGENCE ANALYSTS

SOURCE

Documentary as indicated. (Information specifically requested.)

RECENTLY PUBLISHED RESEARCH OF THE STALING MEDICAL INSTITUTE, DONBASS, USSR

"Chemical and Spectrographic Determination of Silicon in the Presence of Phosphorus in Biological Materials," A. O. Voynar, Med Inst, Stalino, Donbass

"Biokainiya" Vol 11, 1946, pp 19-27

Reduction of silicomolybdate in Isaacs' method is slight at pH 5.5, and increases until maximum color development is reached at pH 2.3. Orthophosphates and pyrophosphates do not yield colored products at pH 3.2-5.5; yellow color begins to appear only at pH 3.0, and is rapidly intensified with increase in acidity. The Si determination must therefore be intermined at a pH higher than 5.0. But at a Ph 3.0 and higher only a portion of the Si caused the color development. Before addition of NH, molybdate, it is necessary to measure the pH and multiply the results by a factor. Factors for pH 3.3, 4.0, and 5.0 are, respectively, 1.445, 1.960, and 6.451. Chemical method has been checked spectrographically. The Si content of a number of human and animal organs has been determined.

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